AMENDMENT UNDER 37 C.F.R. § 1.111

Application No.: 10/575,365

Attorney Docket No.: Q78082

**AMENDMENTS TO THE CLAIMS** 

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1. (currently amended): A flip-chip-type gallium nitride compound semiconductor

light-emitting device comprising a substrate, an n-type semiconductor layer, a light-emitting

layer, and a p-type semiconductor layer,

wherein a negative electrode is provided on said n-type semiconductor layer, and a

positive electrode is provided on said p-type semiconductor layer;

the layers n-type semiconductor layer, the light-emitting layer, and the p-type

semiconductor layer being successively provided atop said substrate in this order and being

composed of a gallium nitride compound semiconductor,

wherein said positive electrode has a three-layer structure comprising an ohmic electrode

layer composed of rhodium which is in contact with said p-type semiconductor layer, an

adhesion layer composed of titanium which is provided on said ohmic electrode layer and has a

thickness of 1000 Å to 3,000 Å 10 Å or more, and a bonding pad layer provided on said adhesion

layer and being composed of a metal selected from the group consisting of gold, aluminum,

nickel, and copper, or composed of an alloy containing at least one of these metals.

2. (canceled).

3. (canceled).

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4. (previously presented): A flip-chip-type gallium nitride compound semiconductor light-emitting device according to claim 1, wherein said ohmic electrode layer has a thickness of 100 Å to 3,000 Å.

- 5. (original): A flip-chip-type gallium nitride compound semiconductor light-emitting device according to claim 4, wherein said ohmic electrode layer has a thickness of 500 Å to 2,000 Å.
- 6. (previously presented): A flip-chip-type gallium nitride compound semiconductor light-emitting device according to claim 1, wherein said bonding pad layer has a thickness of at least 1,000 Å.
- 7. (original): A flip-chip-type gallium nitride compound semiconductor light-emitting device according to claim 6, wherein said bonding pad layer has a thickness of 3,000 Å to 5,000 Å.
- 8. (previously presented): A flip-chip-type gallium nitride compound semiconductor light-emitting device according to claim 1, wherein said bonding pad layer is composed of gold.
- 9. (currently amended): A positive electrode for use in a gallium nitride compound semiconductor light-emitting device, wherein said positive electrode has a three-layer structure comprising an ohmic electrode layer composed of rhodium which is brought into contact with a

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p-type semiconductor layer of said gallium nitride compound semiconductor light-emitting device, an adhesion layer composed of titanium which is provided on said ohmic electrode layer and has a thickness of 1000 Å to 3,000 Å 10 Å or more, and a bonding pad layer provided on said adhesion layer, said bonding pad layer being composed of a metal selected from the group consisting of gold, aluminum, nickel, and copper, or composed of an alloy containing at least one of these metals.

- 10. (canceled).
- 11. (canceled).
- (previously presented): A light-emitting diode comprising a flip-chip-type 12. gallium nitride compound semiconductor light-emitting device according to claim 1.
- 13. (previously presented): A lamp comprising a flip-chip-type gallium nitride compound semiconductor light-emitting device according to claim 1.